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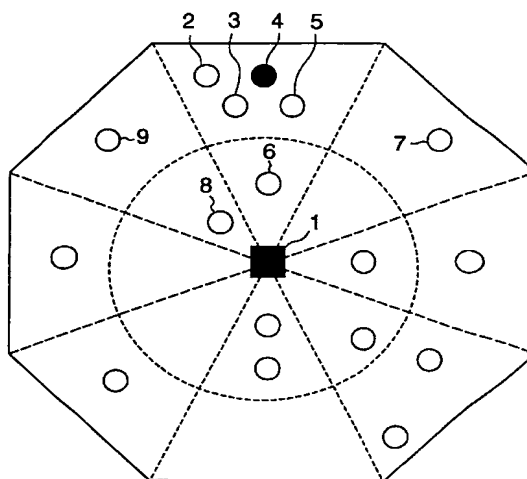
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(54) Title: MULTI-USER DETECTION IN MOBILE TERMINAL FOR REDUCING INTERFERENCE



(57) Abstract: Interference cancellation in a mobile terminal (4) in telecommunication systems like Direct Sequence - Code Division Multiple Access systems or DS-CDMA systems can be improved by providing the mobile terminal (4) with a multi-user detector (41,42,43). These multi-user detectors require the spreading codes of other mobile terminals (2,3,5,6,7,8,9), which spreading codes are available in base stations (1) and thus need to be sent to said mobile terminal (4). By further transmitting power information of other mobile terminals (2,3,5,6,7,8,9) to the mobile terminal (4), a selector (52) can make an intelligent selection in said mobile terminal (4) and select the most important spreading codes thereby reducing the computational complexity. By locating a selector (22) in a base station (1), an intelligent selection can also be made in said base station. Preferably a selection is made per antenna sector and/or in dependence of antenna sectors, in which case direction information of other mobile terminals (2,3,5,6,7,8,9) need to be used.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, INSPEC, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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| X | WO 01 58041 A (INTERDIGITAL TECH CORP) 9 August 2001 (2001-08-09) abstract page 4, line 2 -page 6, line 12 --- -/-- | 1,5,7,9, 11,12 |



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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
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| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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